

Assignment 11

Oral questions

1. Exercise 34.2
2. Exercise 34.4a
3. Exercise 34.6
4. Exercise 34.8a (but read b)
5. Find the antiderivative of $\cos^2(x)$. (Hint: use the fact that $\sin^2(x) + \cos^2(x) = 1$ and that $\cos^2(x) - \sin^2(x) = \cos(2x)$.)
6. Using integration by parts, find the antiderivative of $\ln(x)$. (Hint: $\ln(x) = 1 \cdot \ln(x)$). You may use without proof the fact that the derivative of $\ln(x)$ is $1/x$.

Question to be answered in writing

1. Exercise 34.10